Aristel AN4004

GSM FIXED WIRELESS

TERMINAL

MANUAL

V3.1

This manual contains important information.

Please read before using the equipment.

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1 Introduction

Congratulations on choosing an Aristel GSM Fixed Wireless Terminal.

Your Aristel Fixed Wireless Terminal (FWT) is designed to work on GSM networks . It can be connected to single line telephones (SLT) or PABX systems using analogue SLT ports. It is supplied with rack mounting brackets.

2 Warning

Please observe the following:

1. Avoid using this product in petrol stations, bunkers and places of chemical storage.

2. Avoid using this device in areas where wireless transmission equipment is restricted (such as hospitals, health care facilities and on board aircraft).

3. Use only 2 wire line cords (supplied) when connecting to SLTs and PABX systems.

4. The voice quality may vary between networks.

5. As of March 2009, the following networks will work with this device

Telstra GSM 900/1800, Optus 900/1800, Vodafone 900/1800

Telstra Next G SIM cards will default to GSM 900/1800 Telstra network. Installers should check GSM site reception using a GSM handset or a 3G handset set to GSM only. This is important for country areas. Hutchison '3' will not work with this FWT. It is a 3g only network.

6. The equipment should be installed and maintained by a qualified personal.

7. Position the antennae in a location where signal strength is not impaired.

3 Function Description

This FWT has the following:

1. Standard RJ11 phone socket interface.

2. Caller ID with DTMF.

3. This FWT has the flexibility to bar call destinations such as 1900 calls, national long distance calls, international calls, mobile calls or local phone calls.

4. Supports locking SIM card, locking network, locking district functions.

5. Supports traditional PBX access and reversal on idle.

6. Dialing control (Ability to set up several special phone numbers, restricted numbers).

7. Real time displaying of wireless network signal strength.

4 Operation Guide

4.1 Power On

Turn on the power switch. The equipment will initialize itself and search the network. This will take about 20 seconds. During this process, the running indicator LED keeps flashing. After this process is finished, the equipment is ready, and the signal indicator LED will be lit. Dial tone can be heard if off-hook. If the equipment is locked (or SIM locked or network locked), the equipment checks itself. And if the check inspection has failed, the equipment will send out error tone for 2 minutes and release the connection.

4.2 Panel indicator LED status

(Count from the left to the right.)

1st LED – Off-hook LED:

Off-hook LED is on after pick up handset or press "Handfree" key.

2nd LED – Speaking LED:

Speaking LED is on when the conversation start.

3rd,4th ,5th LED – Signal LED :

Indicate the strength of the signal.

6th LED – Power Indicator LED:

Power Indicator LED is on when switch on the power.

4.3 Make a call

When the signal LEDs are on, and you hear dial tone after you pick up the handset or connect to the PBX trunk, then you can make a call.

4.4 Receive a call

On an incoming call, ring current is sent to the SLT or PBX device with Australian ring cadence.

4.5 Parameter setting

The parameters can be set by a telephone keypad. Enter the setting mode by command "**##**7788#', exit from the setting mode by command "**##7788#". One long beep can be heard if successful. Two short beeps can be heard if unsuccessful. After completing the setting command, hang up, and then pickup the handset to set another command.

4.5.1 Commands Table

Groups	Description	Set	Cancel
Basic	Local area code	**10*code#	**10*#
	National long distance IP1	**11*IP1#	**11* #
	International long distance IP2	**12*IP2#	**12* #
	Nonlocal Mobile IP3	**13*IP3#	**13* #
Call Restriction	Local calls barred	**20*1#	**21*0#
	Incoming barred	**21*1#	**22*0#
	National long distance barred	**22*1#	**23*0#
	International long distance barred	**23*1#	**24*0#
	Local Mobile barred	**24*1#	**25*0#
Volume Adjusting	Speaker Gain	**30*x# (x: 1-4)	
	Microphone Gain	**31*x# (x: 1-4)	
	Speaker Volume	**32*x# (x: 1-4)	
	Microphone Volume	**33*x# (x: 1-4)	
Lock Manage	Card lock: Random PIN Lock	**40*1#	**40*#
	Card lock: Fix PIN lock	**41*1#	**41*#
	Machine lock	**42*1#	**43*0#
	Network lock	**43*1#	**44*0#
Other Commands	Billing Meter	**50*1#	**50*0#
	Hide local phone number	**66*1#	**66*0#
	Clear "0" for Nonlocal Mobile	**51*1#	**51*0#
	Reset to Default value	**52*#	

Any programming will come into effect only after power reset.

4.5.2 Default setting of the factory

Special code: 6000
Local area code: none
IP1: none
Mobile IP: off
Barr Incoming: off
Barr national long distance: off
Barr national long distance: off
Barr local call: off
Barr local handset: off
PIN: 1234
Speaker Gain: 3
Speaker volume: 3
Microphone gain: 3
Microphone volume: 3
Card lock: off
Machine lock: off

5 Configuration and installation

1) Packing List:

- Main unit 1 set
- Antennae 4 pieces
- User Manual 1 volume
- Power cable 1 piece

2). Installation Steps:

The equipment uses the GSM network(s) and requires an active SIM card(s) which are NOT pin locked.

? Install the Fixed Wireless Terminal in a suitable place.

? Turn off the main power switch at the back of the unit.

? Install an active SIM card.

a) Take off the 8 screws of the SIM card cover underneath the unit.

b) Open the SIM card cover. Move the SIM card clamp according to the arrow.

c) Lift the SIM card clamp to insert the SIM card contact side down.

d) Close the SIM card clamp and secure it. Close the SIM card cover plate and replace the 8 screws.

? Connect the antenna(e) into the socket(s).

? using the 2 wire line cord(s) provided, connect the SLT or the PBX SLT port to the FWT RJ11 socket..

? Connected the power cord..

? Turn on the main power switch and the relevant individual power switches at the back of the FWT. The unit will be operational after the initialization period of up to 30 seconds..

6 Technical Data

1) Antenna interface standard: GSM900/1800 MHz or GSM 850/900/1800/1900 MHz or as stated on the equipment case.
2) SIM card: Support 3V/1.8 V (adaptive) G-SIM card
3) Phone interface: DTMF line interface (RJ-11 phone interface)
   On-hook voltage: 45V
   Off-hook current: 30 mA/41mA
   Dialing tone frequency: 450 Hz
4) Antenna interface: antenna gain > 3.5 DB
   Sensitivity < -104 DBM
   Antenna transmission power: < 3 W
   Impedance: 50 ohm
5) Working environment:

   Operation temperature: -20 ? ~ 60 ?

   Operation humidity: 45% ~ 95%

   Storage temperature: -20 ? ~ 60 ?

   Atmosphere pressure: 86 ~ 106 Kpa

   Environment noise: < 60dB

   This device has a 12 months warranty from the date of purchase.